

Case No. : <u>GTS20240826017-4-02</u>	
Ambient Condition: <u>23</u> °C, <u>53</u> %RH,	
Test Date: <u>2024.9.4</u>	Test Engineer: <u>Evan ouyang</u>

Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.400	2406.600	2417.000	0.5	PASS
		2437	9.520	2432.000	2441.520	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.720	2403.120	2420.840	0.5	PASS
		2437	17.720	2428.120	2445.840	0.5	PASS
		2462	17.720	2453.120	2470.840	0.5	PASS
11AX20SISO	Ant1	2412	18.960	2402.520	2421.480	0.5	PASS
		2437	18.880	2427.560	2446.440	0.5	PASS
		2462	18.920	2452.480	2471.400	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



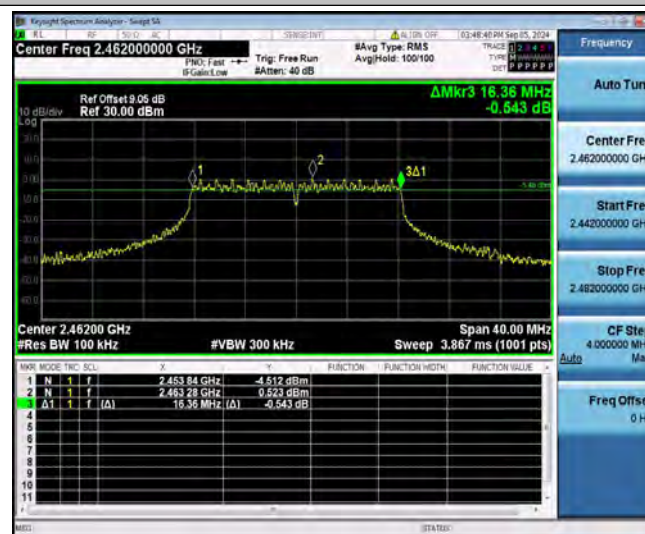
11G_Ant1_2412



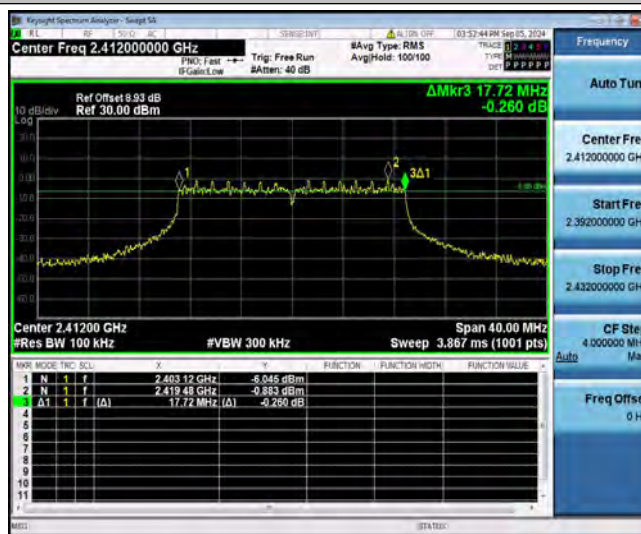
11G_Ant1_2437



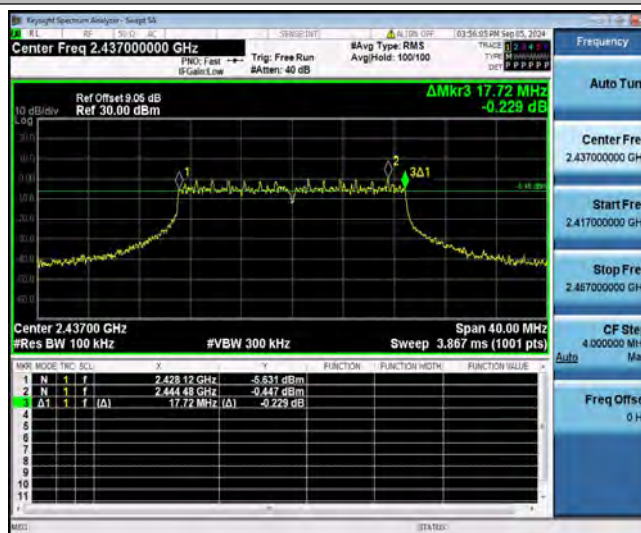
11G_Ant1_2462



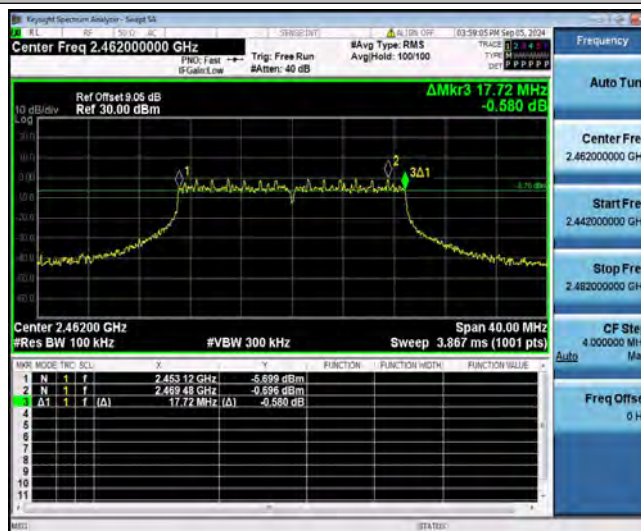
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



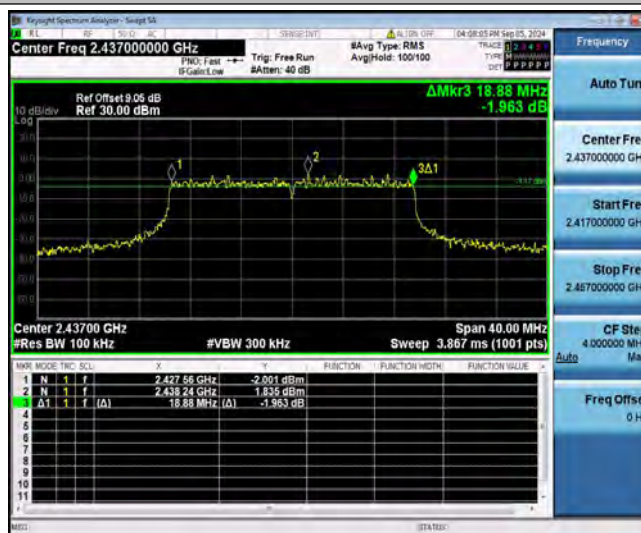
11N20SISO_Ant1_2462



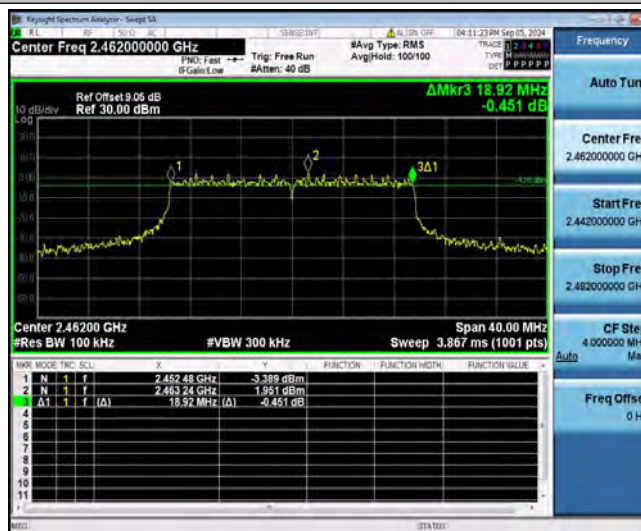
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



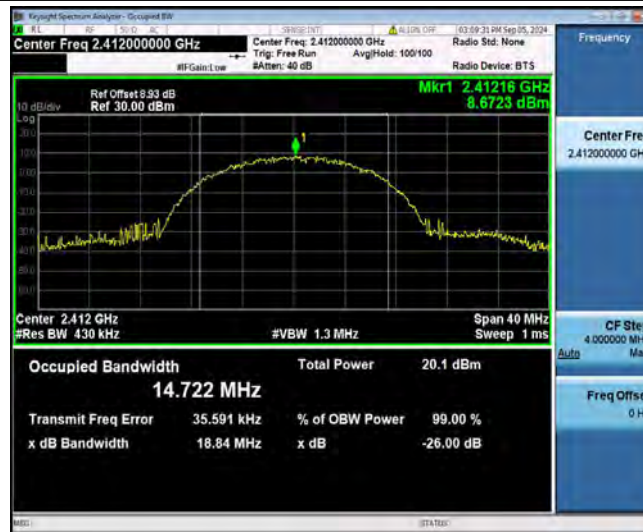
Appendix B.2: Occupied Channel Bandwidth

Test Result

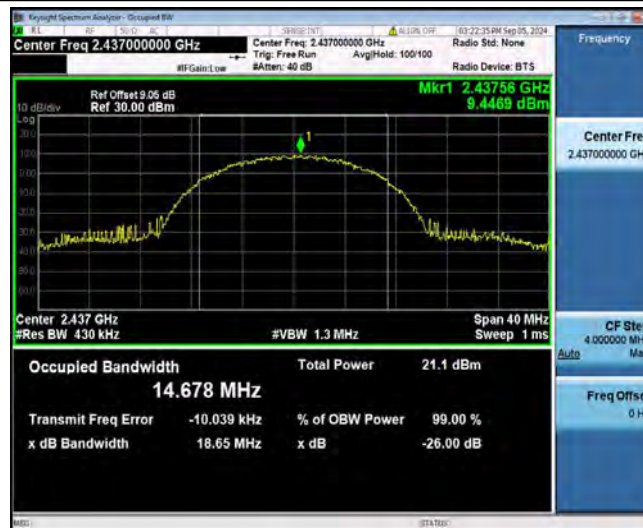
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.722	2404.6746	2419.3966	---	---
		2437	14.678	2429.6510	2444.3290	---	---
		2462	14.708	2454.5996	2469.3076	---	---
11G	Ant1	2412	17.014	2403.4181	2420.4321	---	---
		2437	16.997	2428.4396	2445.4366	---	---
		2462	16.996	2453.4090	2470.4050	---	---
11N20SISO	Ant1	2412	18.147	2402.8794	2421.0264	---	---
		2437	18.204	2427.8338	2446.0378	---	---
		2462	18.174	2452.8370	2471.0110	---	---
11AX20SISO	Ant1	2412	19.237	2402.3654	2421.6024	---	---
		2437	19.226	2427.3646	2446.5906	---	---
		2462	19.227	2452.3427	2471.5697	---	---

Test Graphs

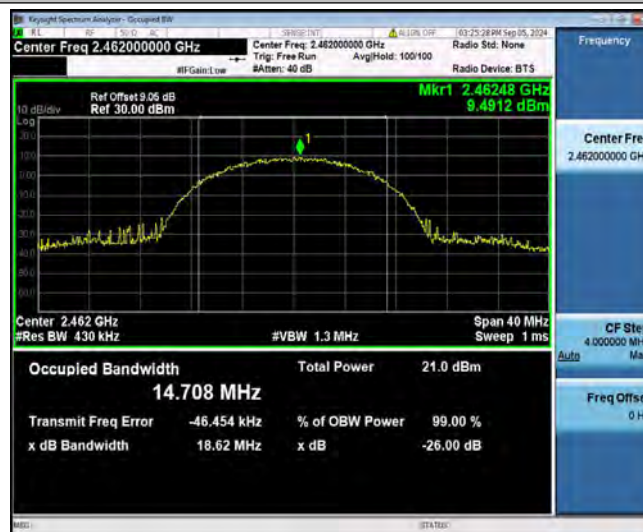
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



Appendix B.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	19.56	≤30.00	PASS
		2437	20.45	≤30.00	PASS
		2462	20.48	≤30.00	PASS
11G	Ant1	2412	18.20	≤30.00	PASS
		2437	18.71	≤30.00	PASS
		2462	18.82	≤30.00	PASS
11N20SISO	Ant1	2412	17.30	≤30.00	PASS
		2437	17.71	≤30.00	PASS
		2462	17.66	≤30.00	PASS
11AX20SISO	Ant1	2412	20.38	≤30.00	PASS
		2437	20.79	≤30.00	PASS
		2462	20.82	≤30.00	PASS

Appendix B.4: Maximum power spectral density

Test Result

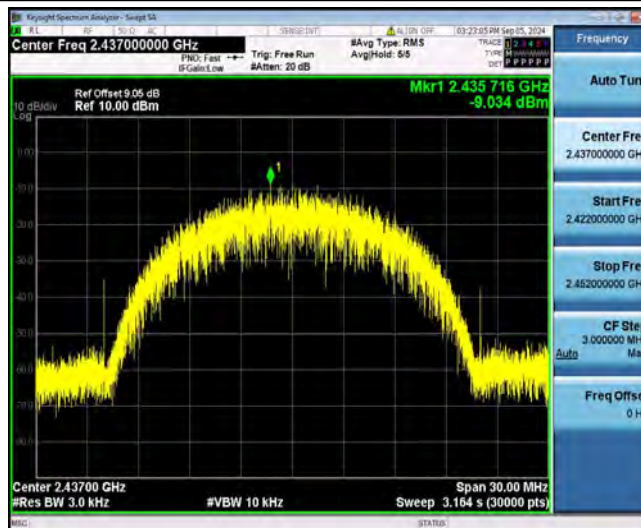
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.74	≤8.00	PASS
		2437	-9.03	≤8.00	PASS
		2462	-8.58	≤8.00	PASS
11G	Ant1	2412	-14.65	≤8.00	PASS
		2437	-13.48	≤8.00	PASS
		2462	-13.72	≤8.00	PASS
11N20SISO	Ant1	2412	-15.27	≤8.00	PASS
		2437	-14.02	≤8.00	PASS
		2462	-14.63	≤8.00	PASS
11AX20SISO	Ant1	2412	-13.14	≤8.00	PASS
		2437	-13.26	≤8.00	PASS
		2462	-12.62	≤8.00	PASS

Test Graphs

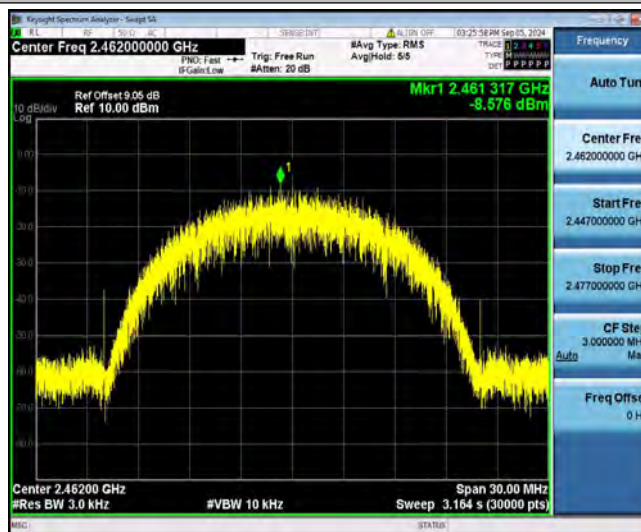
11B_Ant1_2412



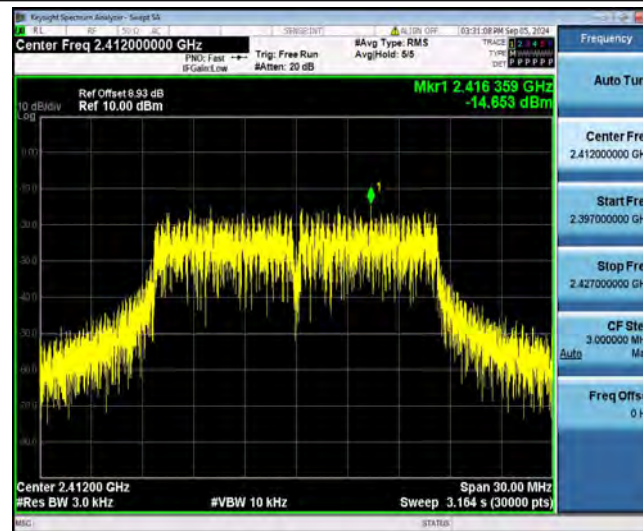
11B_Ant1_2437



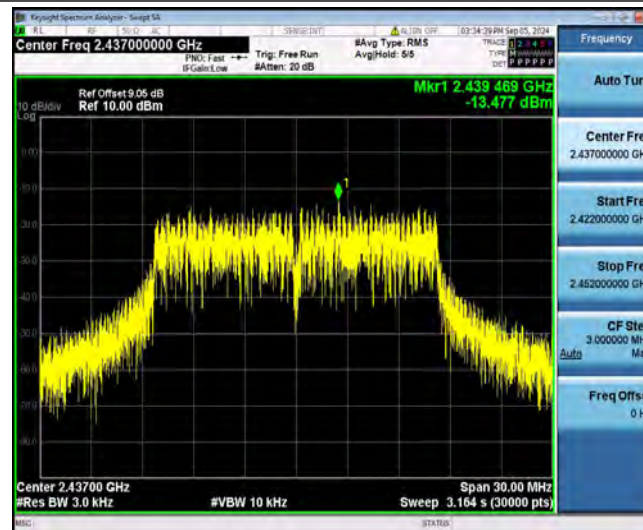
11B_Ant1_2462



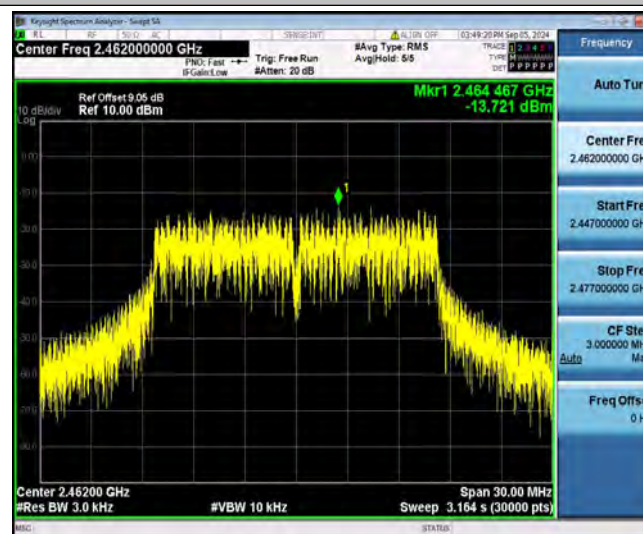
11G_Ant1_2412



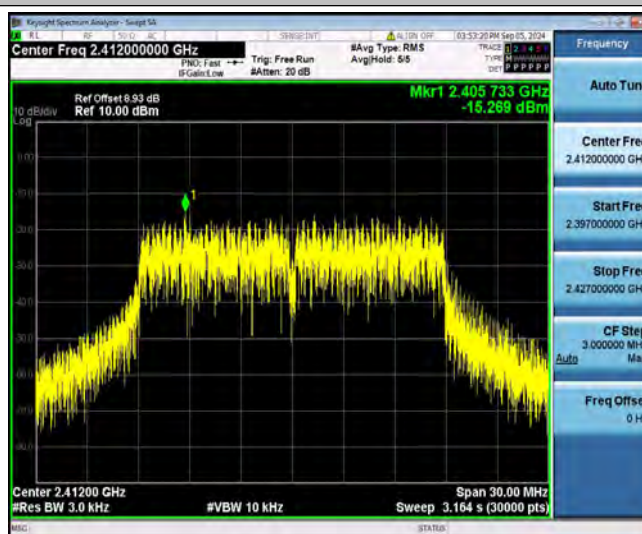
11G_Ant1_2437



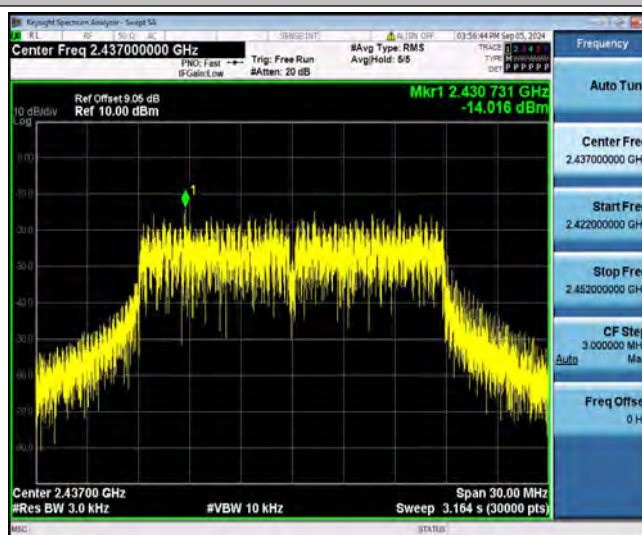
11G_Ant1_2462



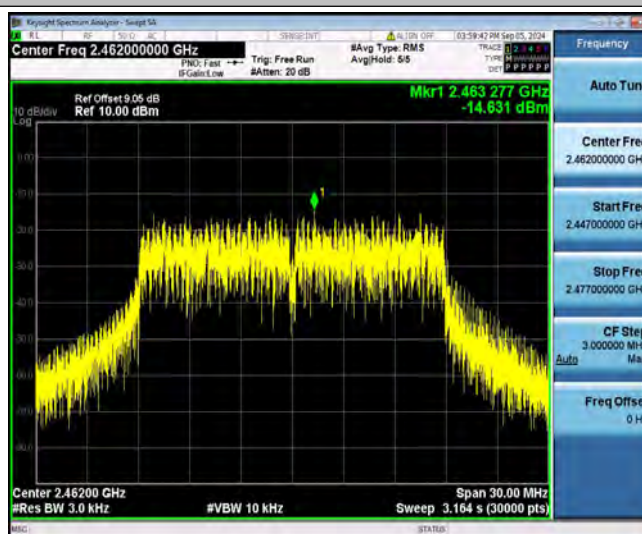
11N20SISO_Ant1_2412



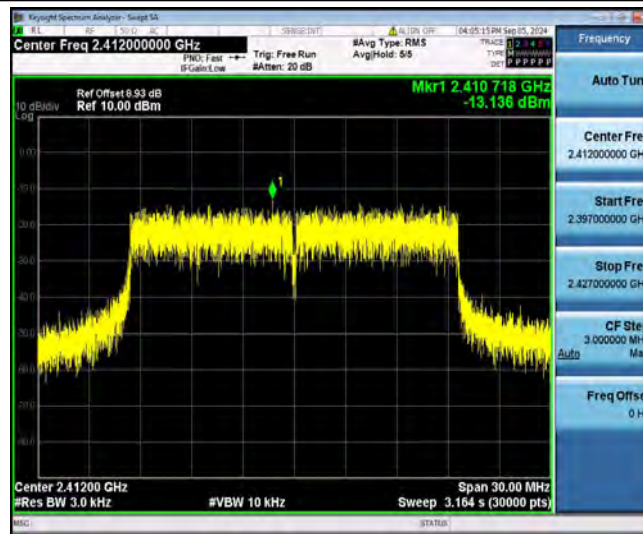
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



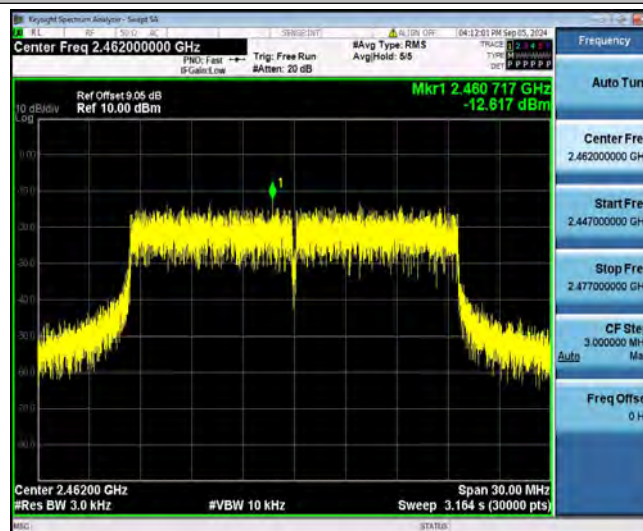
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



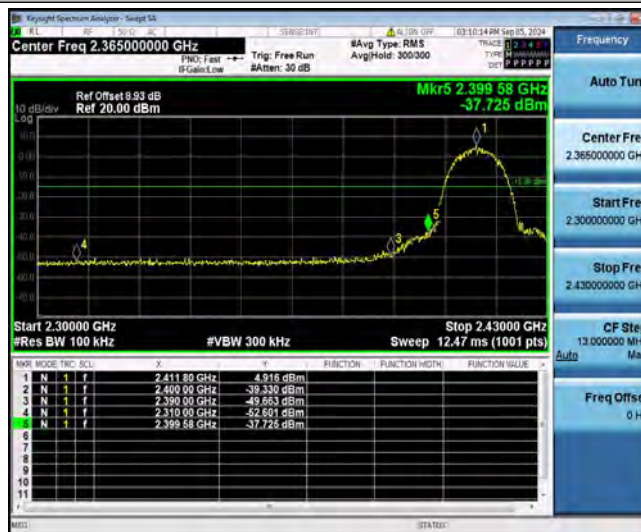
Appendix B.5: Band edge measurements

Test Result

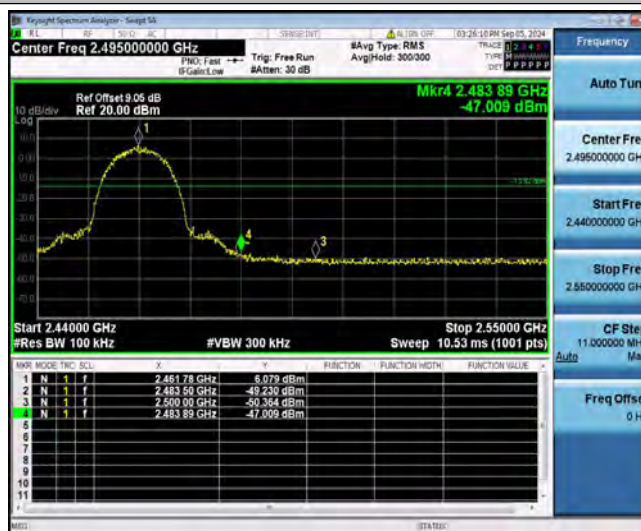
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.92	-37.73	≤ -15.08	PASS
		High	2462	6.08	-47.01	≤ -13.92	PASS
11G	Ant1	Low	2412	-0.07	-31.51	≤ -20.07	PASS
		High	2462	0.61	-44.22	≤ -19.39	PASS
11N20SISO	Ant1	Low	2412	-0.95	-32.62	≤ -20.95	PASS
		High	2462	-0.52	-47.11	≤ -20.52	PASS
11AX20SISO	Ant1	Low	2412	1.49	-27.48	≤ -18.51	PASS
		High	2462	2.03	-35.23	≤ -17.97	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462



Appendix B.6: Conducted Spurious Emission

Test Result

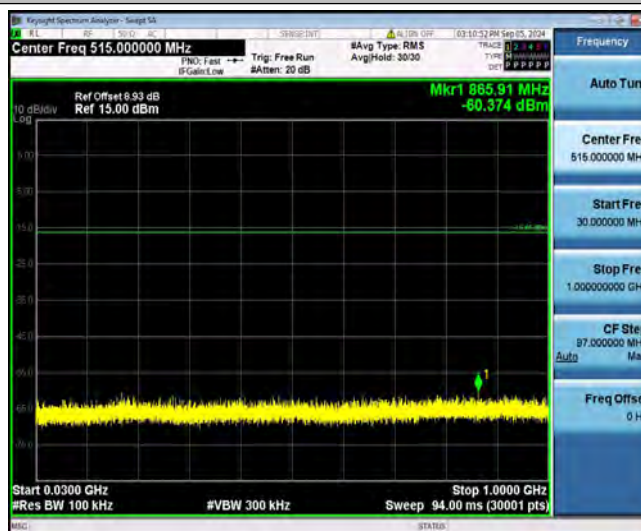
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.55	3.55	---	PASS
			30~1000	3.55	-60.37	≤ -16.45	PASS
			1000~26500	3.55	-48.93	≤ -16.45	PASS
		2437	Reference	4.56	4.56	---	PASS
			30~1000	4.56	-60.7	≤ -15.44	PASS
			1000~26500	4.56	-47.91	≤ -15.44	PASS
		2462	Reference	5.97	5.97	---	PASS
			30~1000	5.97	-60.92	≤ -14.03	PASS
			1000~26500	5.97	-47.57	≤ -14.03	PASS
11G	Ant1	2412	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-60.31	≤ -20.41	PASS
			1000~26500	-0.41	-48.17	≤ -20.41	PASS
		2437	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-60.78	≤ -20.21	PASS
			1000~26500	-0.21	-47.23	≤ -20.21	PASS
		2462	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-60.67	≤ -19.43	PASS
			1000~26500	0.57	-47.21	≤ -19.43	PASS
11N20SISO	Ant1	2412	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-60.98	≤ -21.46	PASS
			1000~26500	-1.46	-47.98	≤ -21.46	PASS
		2437	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-60.29	≤ -20.84	PASS
			1000~26500	-0.84	-47.68	≤ -20.84	PASS
		2462	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-60.53	≤ -21.16	PASS
			1000~26500	-1.16	-46.81	≤ -21.16	PASS
11AX20SISO	Ant1	2412	Reference	0.79	0.79	---	PASS
			30~1000	0.79	-61.03	≤ -19.21	PASS
			1000~26500	0.79	-47.23	≤ -19.21	PASS
		2437	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-60.29	≤ -19.32	PASS
			1000~26500	0.68	-47.43	≤ -19.32	PASS
		2462	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-60.62	≤ -19.93	PASS
			1000~26500	0.07	-47.4	≤ -19.93	PASS

Test Graphs

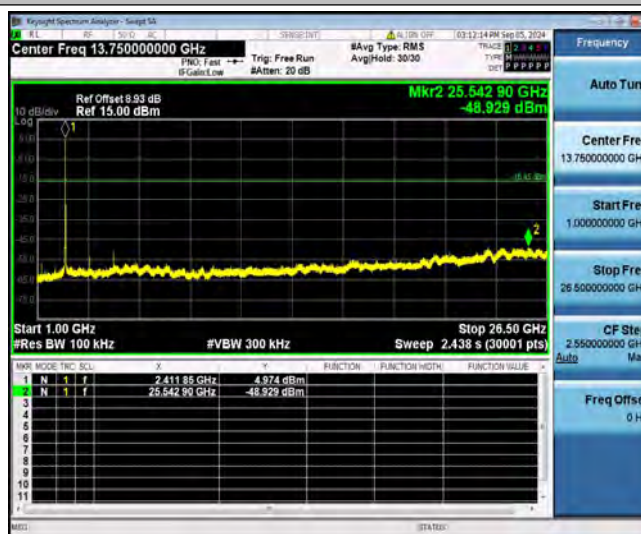
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



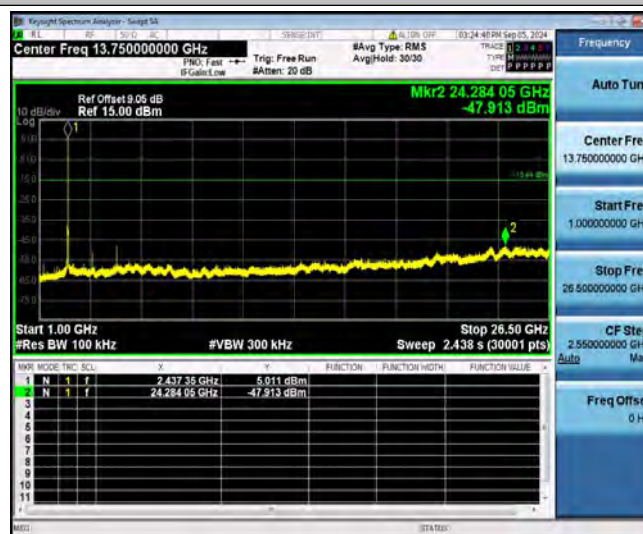
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



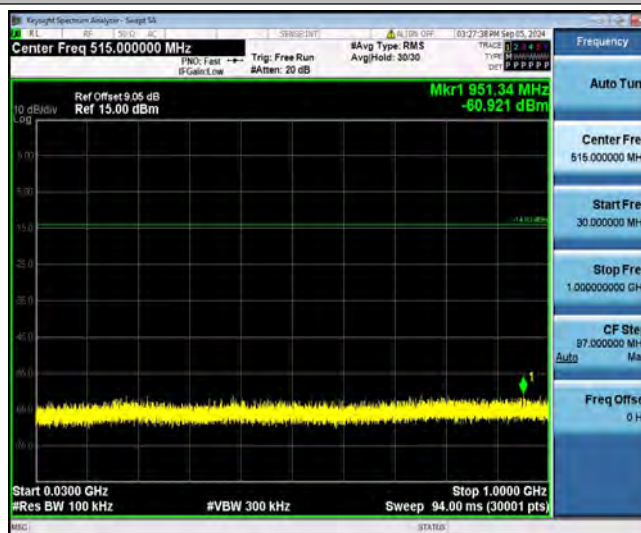
11B_Ant1_2437_1000~26500



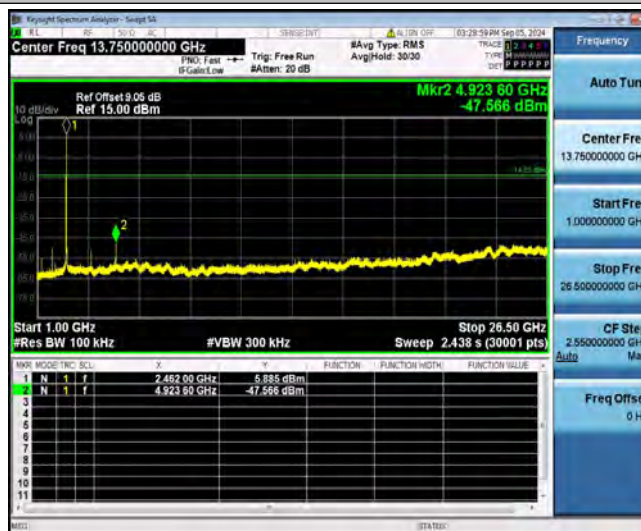
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



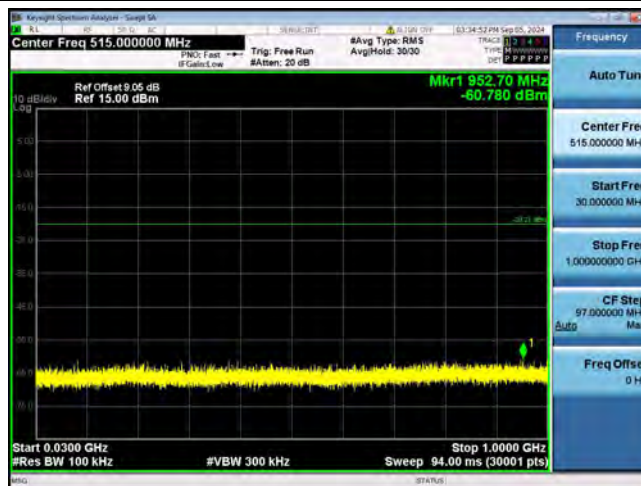
11G_Ant1_2412_1000~26500



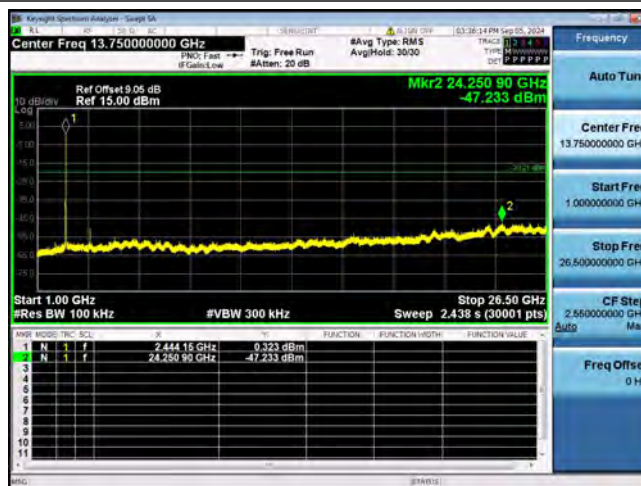
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



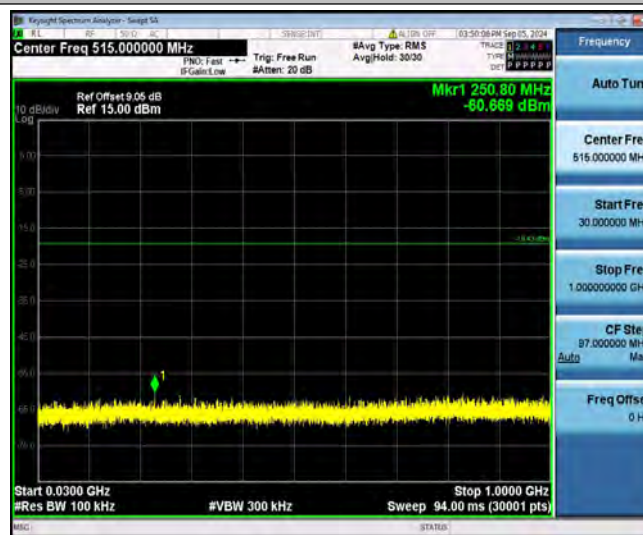
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



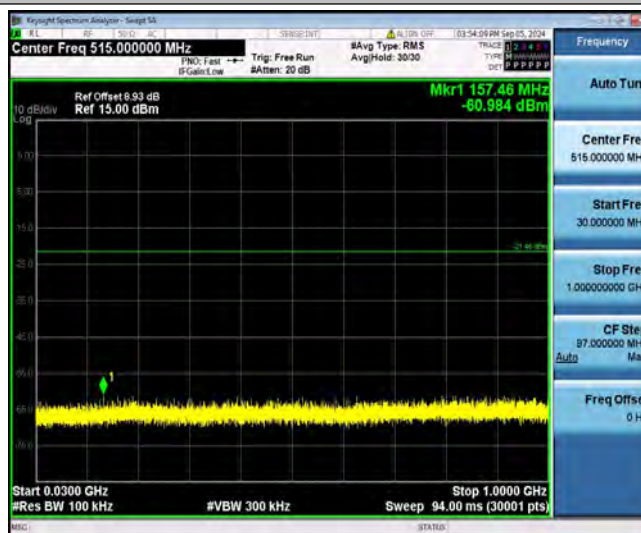
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



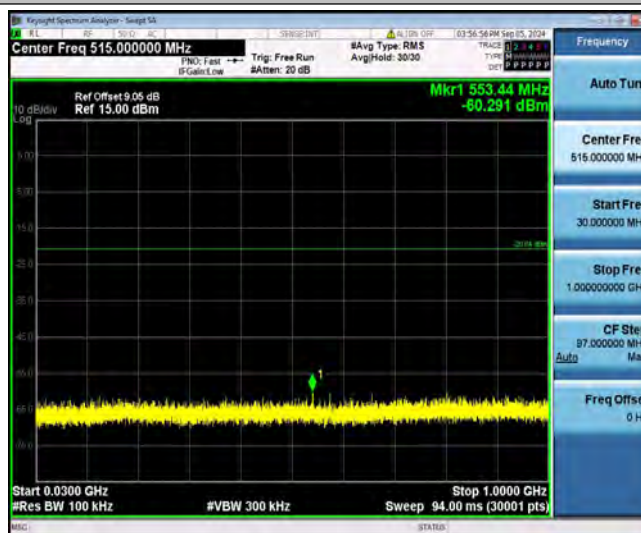
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



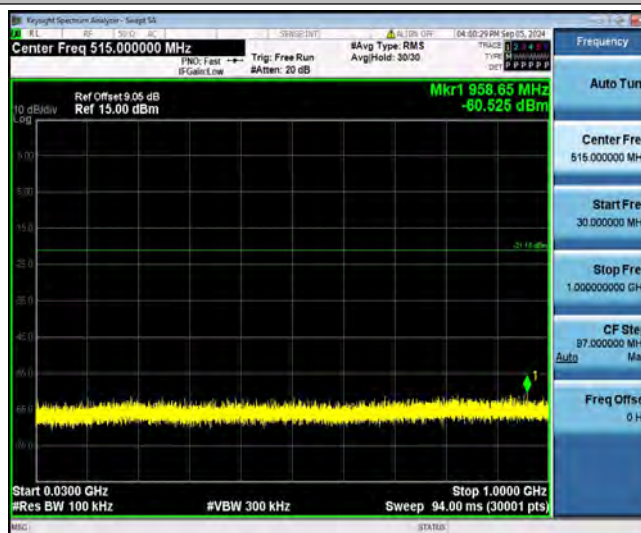
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



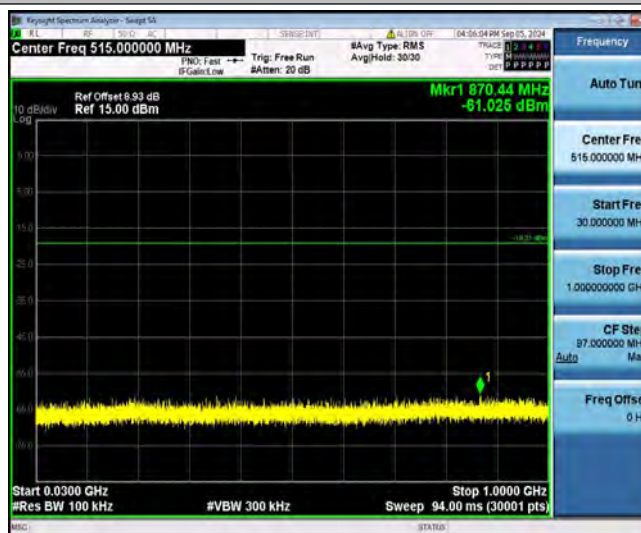
11N20SISO_Ant1_2462_1000~26500



11AX20SISO_Ant1_2412_0~Reference



11AX20SISO_Ant1_2412_30~1000



11AX20SISO_Ant1_2412_1000~26500



11AX20SISO_Ant1_2437_0~Reference



11AX20SISO_Ant1_2437_30~1000



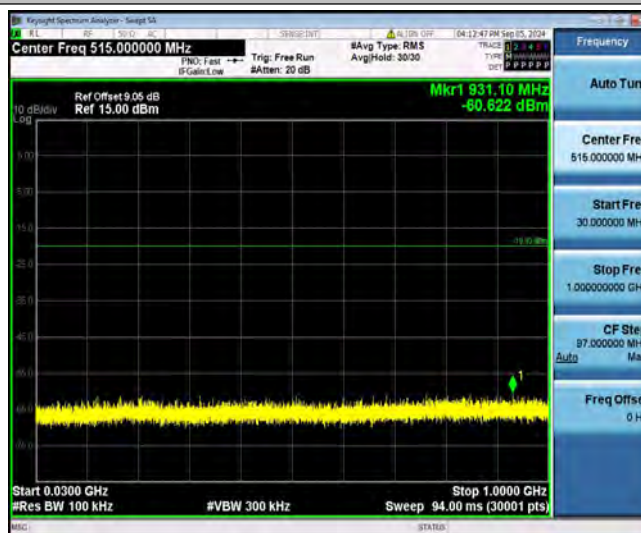
11AX20SISO_Ant1_2437_1000~26500



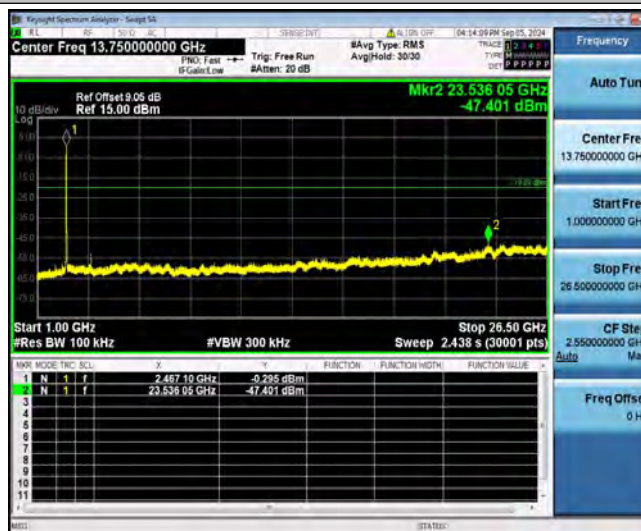
11AX20SISO_Ant1_2462_0~Reference



11AX20SISO_Ant1_2462_30~1000



11AX20SISO_Ant1_2462_1000~26500



Appendix B.7: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.91	≤-41.20	45.29	≤54	PASS
				AV	2387.620	-46.93	≤-41.20	48.27	≤54	PASS
				AV	2390.000	-46.94	≤-41.20	48.26	≤54	PASS
				Peak	2310.000	-44.42	≤-21.20	50.78	≤74	PASS
				Peak	2312.350	-39.43	≤-21.20	55.77	≤74	PASS
				Peak	2390.000	-44.44	≤-21.20	50.76	≤74	PASS
		High	2462	AV	2483.500	-46.44	≤-41.20	48.76	≤54	PASS
				AV	2483.560	-46.49	≤-41.20	48.71	≤54	PASS
				AV	2500.000	-48.09	≤-41.20	47.11	≤54	PASS
				Peak	2483.500	-44.22	≤-21.20	50.98	≤74	PASS
				Peak	2487.630	-39.05	≤-21.20	56.15	≤74	PASS
				Peak	2500.000	-50.73	≤-21.20	44.47	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.51	≤-41.20	45.69	≤54	PASS
				AV	2389.960	-43.75	≤-41.20	51.45	≤54	PASS
				AV	2390.000	-43.75	≤-41.20	51.45	≤54	PASS
				Peak	2310.000	-46.55	≤-21.20	48.65	≤74	PASS
				Peak	2389.830	-36.1	≤-21.20	59.10	≤74	PASS
				Peak	2390.000	-42.92	≤-21.20	52.28	≤74	PASS
		High	2462	AV	2483.500	-42.36	≤-41.20	52.84	≤54	PASS
				AV	2483.560	-42.57	≤-41.20	52.63	≤54	PASS
				AV	2500.000	-48.71	≤-41.20	46.49	≤54	PASS
				Peak	2483.500	-43.81	≤-21.20	51.39	≤74	PASS
				Peak	2484.000	-37.54	≤-21.20	57.66	≤74	PASS
				Peak	2500.000	-43.75	≤-21.20	51.45	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.58	≤-41.20	45.62	≤54	PASS
				AV	2389.960	-44.81	≤-41.20	50.39	≤54	PASS
				AV	2390.000	-44.81	≤-41.20	50.39	≤54	PASS
				Peak	2310.000	-45.66	≤-21.20	49.54	≤74	PASS
				Peak	2388.660	-37.14	≤-21.20	58.06	≤74	PASS
				Peak	2390.000	-44.47	≤-21.20	50.73	≤74	PASS
		High	2462	AV	2483.500	-44.65	≤-41.20	50.55	≤54	PASS
				AV	2483.560	-44.8	≤-41.20	50.40	≤54	PASS
				AV	2500.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2483.500	-44.91	≤-21.20	50.29	≤74	PASS
				Peak	2484.000	-35.4	≤-21.20	59.80	≤74	PASS

				Peak	2500.000	-46.66	≤-21.20	48.54	≤74	PASS
11AX20SI SO	Ant1	Low	2412	AV	2310.000	-49.66	≤-41.20	45.54	≤54	PASS
				AV	2389.960	-41.67	≤-41.20	53.53	≤54	PASS
				AV	2390.000	-41.68	≤-41.20	53.52	≤54	PASS
				Peak	2310.000	-44.47	≤-21.20	50.73	≤74	PASS
				Peak	2389.960	-32.4	≤-21.20	62.80	≤74	PASS
				Peak	2390.000	-32.4	≤-21.20	62.80	≤74	PASS
		High	2462	AV	2483.500	-42.57	≤-41.20	52.63	≤54	PASS
				AV	2483.560	-42.62	≤-41.20	52.58	≤54	PASS
				AV	2500.000	-48.79	≤-41.20	46.41	≤54	PASS
				Peak	2483.500	-40.6	≤-21.20	54.60	≤74	PASS
				Peak	2483.780	-34.63	≤-21.20	60.57	≤74	PASS
				Peak	2500.000	-45.25	≤-21.20	49.95	≤74	PASS

Note:

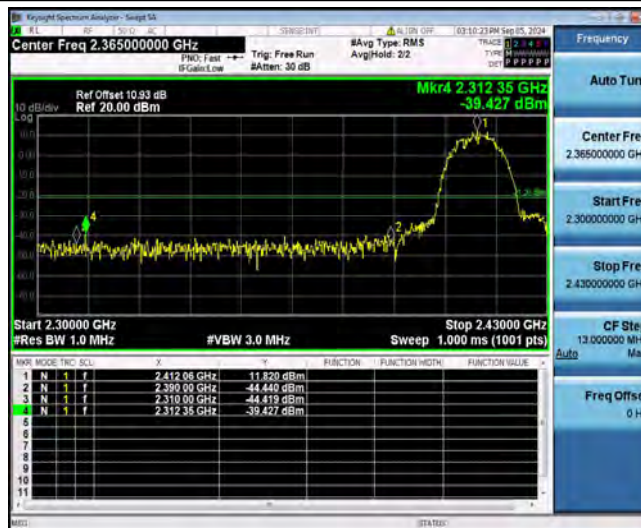
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

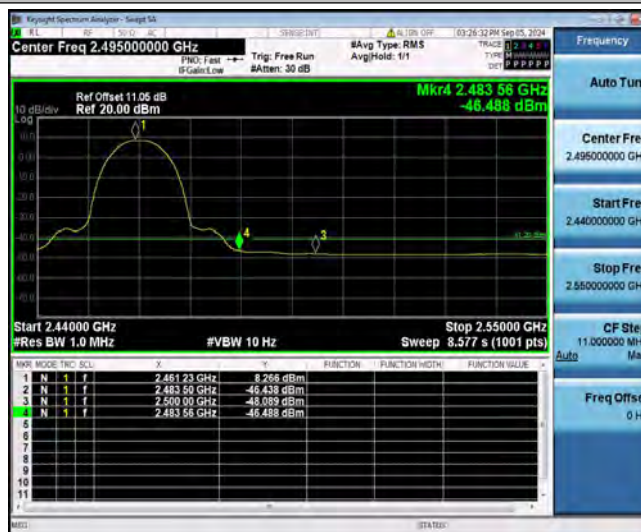
11B_Ant1_Low_2412_AV



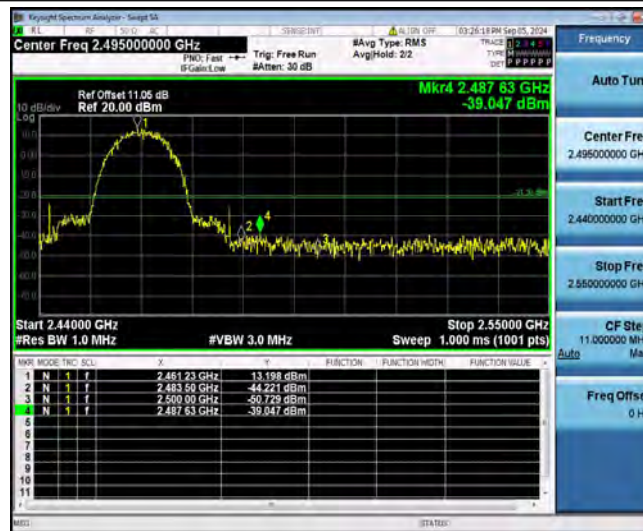
11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV



11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



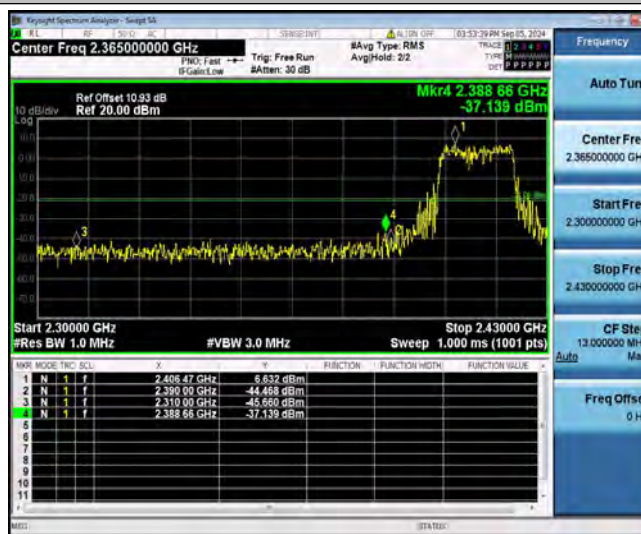
11G_Ant1_High_2462_Peak



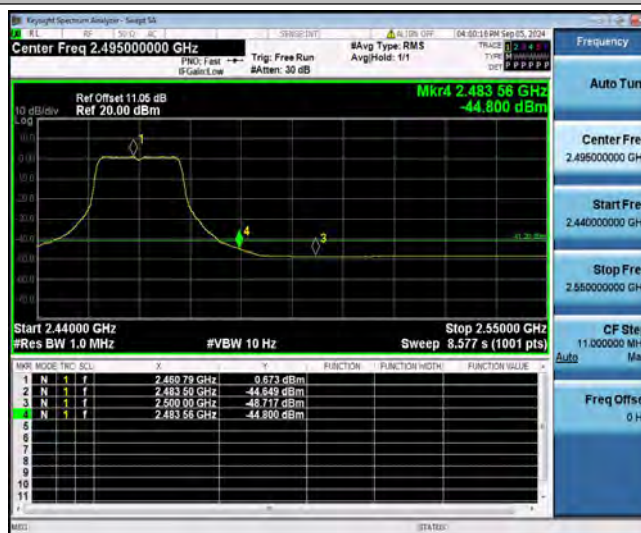
11N20SISO_Ant1_Low_2412_AV



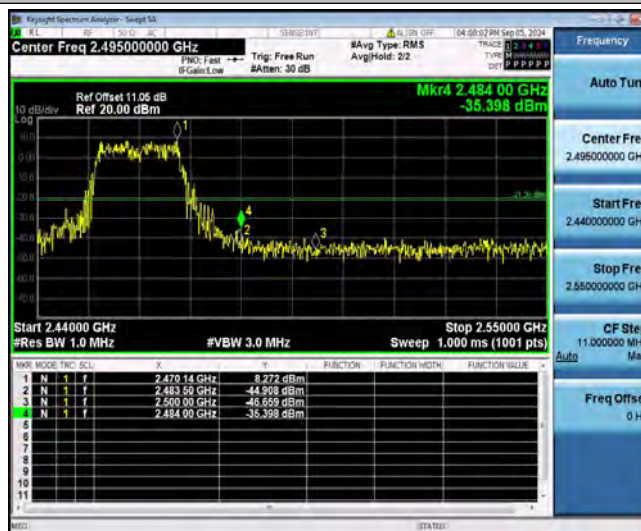
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



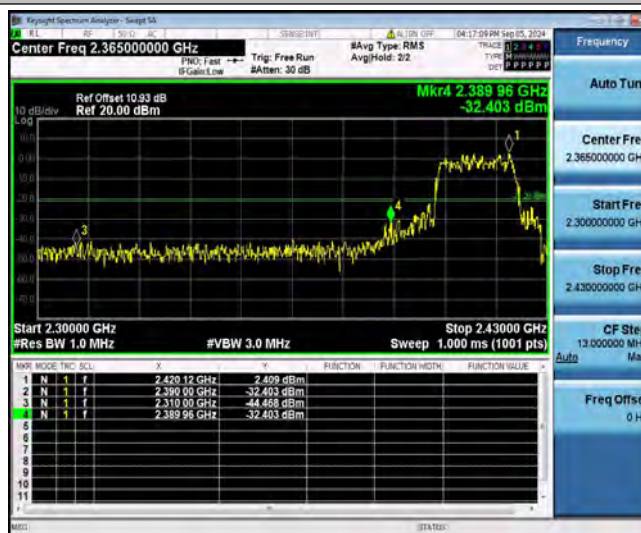
11N20SISO_Ant1_High_2462_Peak



11AX20SISO_Ant1_Low_2412_AV



11AX20SISO_Ant1_Low_2412_Peak



11AX20SISO_Ant1_High_2462_AV

